

ABSTRACT OF THE DISCLOSURE

The fixing apparatus includes an induction heating device provided inside the fixing roller, configured to heat the fixing roller by induction heating, and the
5 induction heating device further includes a core member and an excitation coil wound around the core member, and where the inner diameter of the heat roller is represented by D , the width of the portion of the core member, which opposes at least the heat roller is
10 represented by B , the inductance of the excitation coil is $L[\mu\text{H}]$ and the resistance of the heat roller is $R[\Omega]$, B is set to be larger than $L/R \times 0.3$ and less than $D/3$.